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Inventor(s): SAWADA SHIGEKI; IMAI KAZUO
Applicant(s):: KURITA WATER IND LTD
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Abstract

PROBLEM TO BE SOLVED: To carry out a process in which pollutants adherent to and are deposited on the surface of a membrane are washed out and removed efficiently with a small amount of backwashing water by a method in which when chlorine water is made to backflow through a membrane module from the secondary side of the membrane to the primary side to wash the membrane, after the passage of a prescribed time from the backflow of chlorine water, retained water on the primary side of the membrane is discharged outside a system.

SOLUTION: Filtrate which is obtained by passing raw water in a raw water tank 1 through a membrane module 2 from the primary side 2A of the module 2 to the secondary side 2B and passed through a filtrate tank 3 is taken out as treated water. Besides, when the membrane is backwashed, pumps P1, P2 are stopped, valves V1-V3 are closed, and pumps P3, P4 are actuated. In this way, a sodium hypochlorite aqueous solution is injected into the filtrate from the tank 3 to prepare chlorine water, which is made to backflow from the secondary side 2B to the primary side 2A. The primary side 2A is filled with chlorine water, the pumps P3, P4 are stopped, after the elapse of a prescribed length of time, the pump P1 is actuated, the valve V1 is opened, raw water in the tank 1 is introduced to the primary side 2A, and chlorine water is discharged outside a system.

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